

California High-Speed Rail Authority

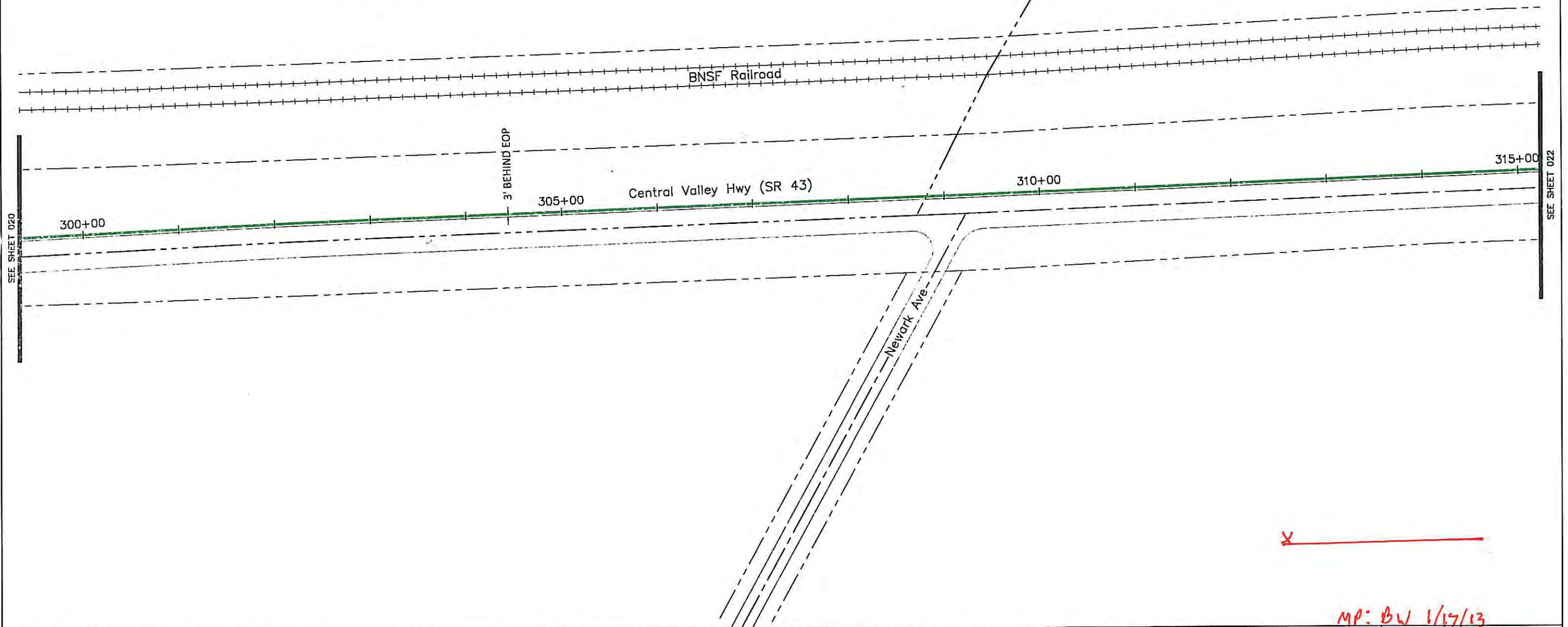




RFP No.: HSR 13-57

**Request for Proposal
for Design-Build Services for Construction Package 2-3**

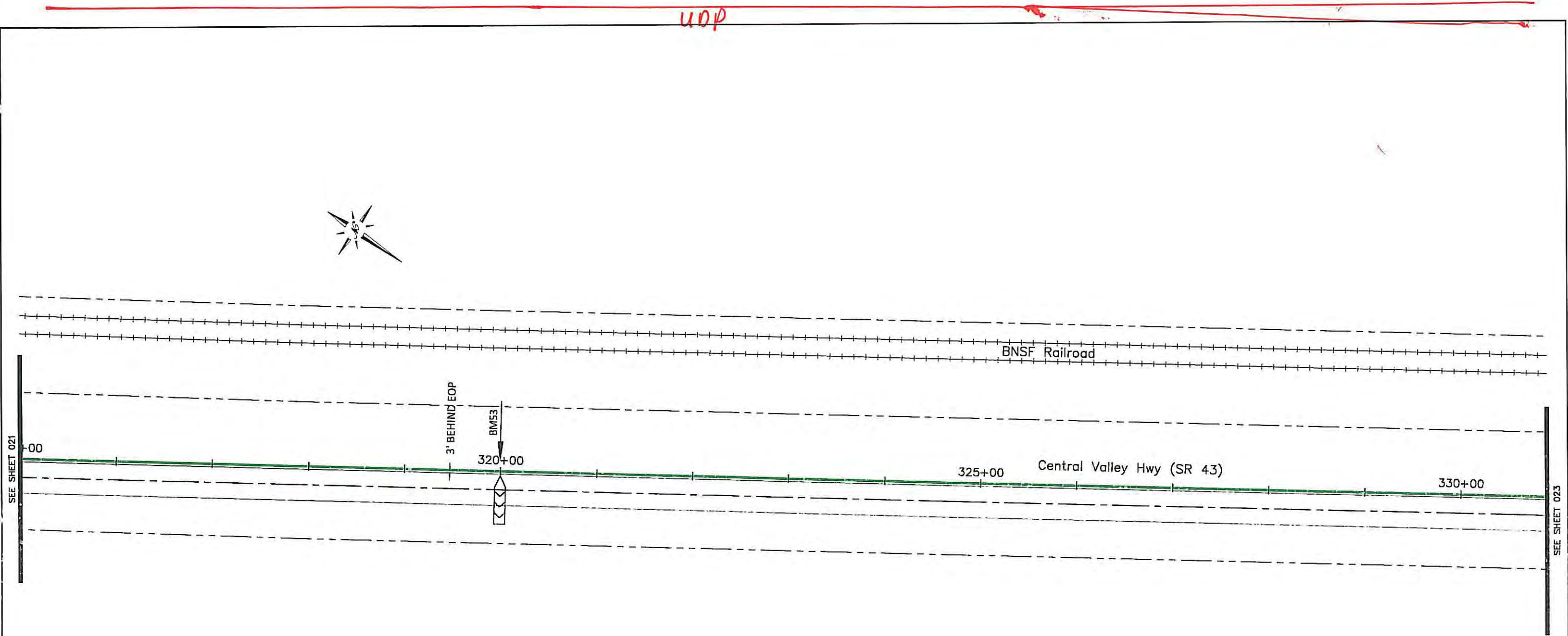
Reference Materials, Part A.5 – CVIN SR43 As-Builts

UDP



TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D	<div>Engineering Associates, Inc. 445 W. 11th St. (Suite B) Tracy, Ca. 95376 Ph. 209-830-0162 Fax 209-830-8157</div>	<div></div>	<div>CVIN CENTRAL VALLEY INDEPENDENT NETWORK 855 M Street, Suite 1120, Fresno, CA 93721</div>	
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY										
BM53	0	BM96-G	0'	UD-A	0'	FT	0												
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0												
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0														
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0														
BM71C	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0														
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0														
BM73	0'	UO(72) MICRO (W/ STORAGE)	0'	UHF(36X60X36)T	0														
																			DATE:
																9/27/2011	1:100	15 WAUKENA-LEMOORE	021



MP: BW 1/17/13



TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	1	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")DR	0'	BR	0'	UD-5	0'	WY	0								
BM61D & U(2x1x1.25")DR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")DR	0'	HUO(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")DR	0'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
BM73	0'	UD(72) MICRO (W/ STORAGE)	0'	UHF(36X60X36)T	0										

MP: BW 1/17/13

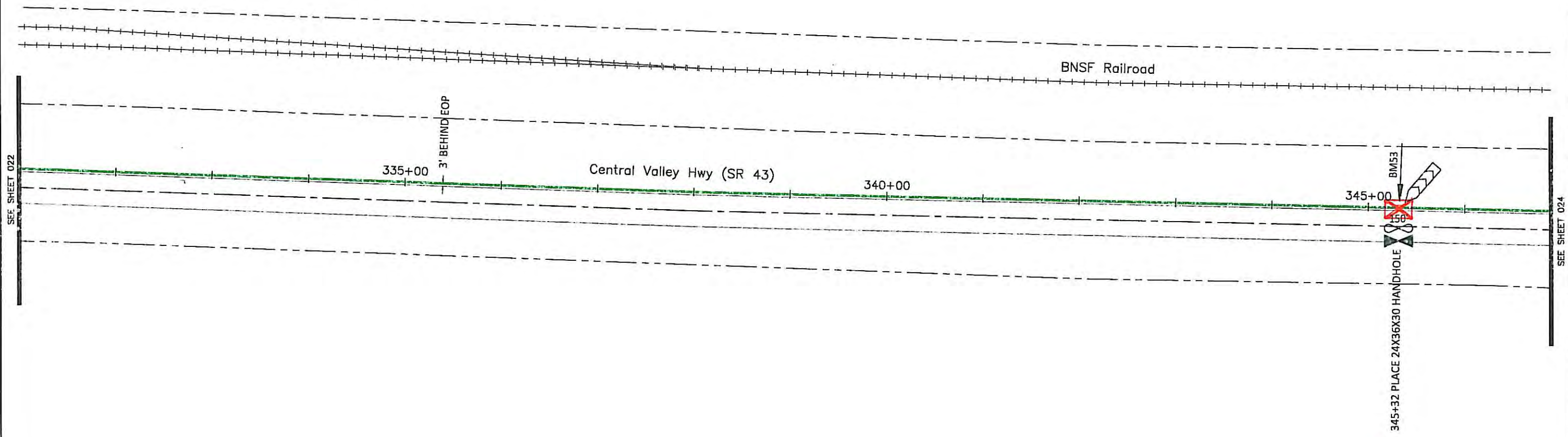
Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157


CENTRAL VALLEY
INDEPENDENT NETWORK
855 M Street, Suite 1120, Fresno, CA 93721

DATE: 9/27/2011
SCALE: 1:100
SEGMENT: 15 WAUKENA-LEMOORE
GRID: 022



U2P 5240'

317+50
36.12683879°N
119.57895616°W



[Handwritten signature]

MP: BW 1/17/13

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D	<div>Engineering Associates, Inc. 445 W. 11th St. (Suite B) Tracy, Ca. 95376 Ph. 209-830-0162 Fax 209-830-8157</div> <div></div> <div><div>CENTRAL VALLEY INDEPENDENT NETWORK</div><div>855 M Street, Suite 1120, Fresno, CA 93721</div></div>							
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY														
BM53	1	BM96-G	0'	UD-A	0'	FT	0																
BM600 & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0																
BM610 & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0																		
BM66 & U(2x1x1.25")OR	0'	HUO(72)	1	UHF(24X36X30)	1																		
BM71C	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0																		
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0																		
BM73	0'	UD(72) MICRO (W/ STORAGE)	150'	UHF(36X60X36)T	0																		
																	DATE:	9/27/2011	SCALE:	1:100	SEGMENT:	15 WAUKENA-LEMOORE	GRID:



BNSF Railroad

Central Valley Hwy (SR 43)

UD(2X1x1.75)OR - 5000

UO(72) MICRO - 5000'

Bole # 15.3A










 $350 + 00$

BEHIND EOP

~~360700~~

CAUTION - SEE BIOLOGICAL
AVOIDANCE AREA MAP 57C
ON SHEET B1

AVOIDANCE AREA LEGEND


- | | | | |
|---|-----------------------------------|---|-----------|
|  | SEASONAL AND
PERMANENT AQUATIC |  | CHAPARRAL |
|  | AGRICULTURE |  | WOODLAND |
|  | GRASSLAND |  | RIPARIAN |
|  | ALKALI SCRUB |  | DEVELOPED |
|  | RUDERAL | | |


x m/s

MP: BW 1/17/13

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
	0	BM96-G	0'	UD-A	0'	FT	0								
25")OR	0'	BR	0'	UD-S	0'	WY	0								
OR	0'	FD-A	0	UHF(24X36X12)	0										
	0'	HUO(72)	0	UHF(24X36X30)	0										
	0'	UD(2x1x1.25")OR	5000'	UHF(24X36X30)T	0										
	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
	0'	UO(72) MICRO (W/ STORAGE)	5000'	UHF(36X60X36)T	0										

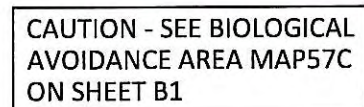
Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157






DATE: 9/27/2011
SCALE: 1:100
SEGMENT: 15 WAUKENA-LEMOORE
GRID: 024


uop 990'



TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	1	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X35)T	0										
BM73	0'	UO(72) MICRO (W/ STORAGE)	0'	UHF(36X60X35)T	0										

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157





855 M Street, Suite 1120, Fresno, CA 93721

DATE:
9/27/2011

SCALE:
1:100

SEGMENT:
15 WAUKENA-LEMOORE

GRID:
025

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	0	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
BM73	0'	UO(72) MICRO (W/ STORAGE)	0'	UHF(36X60X36)T	0										

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

855 M Street, Suite 1120, Fresno, CA 93721

DATE: 9/27/2011

SCALE: 1:100

SEGMENT: 15 WAUKENA-LEMOORE

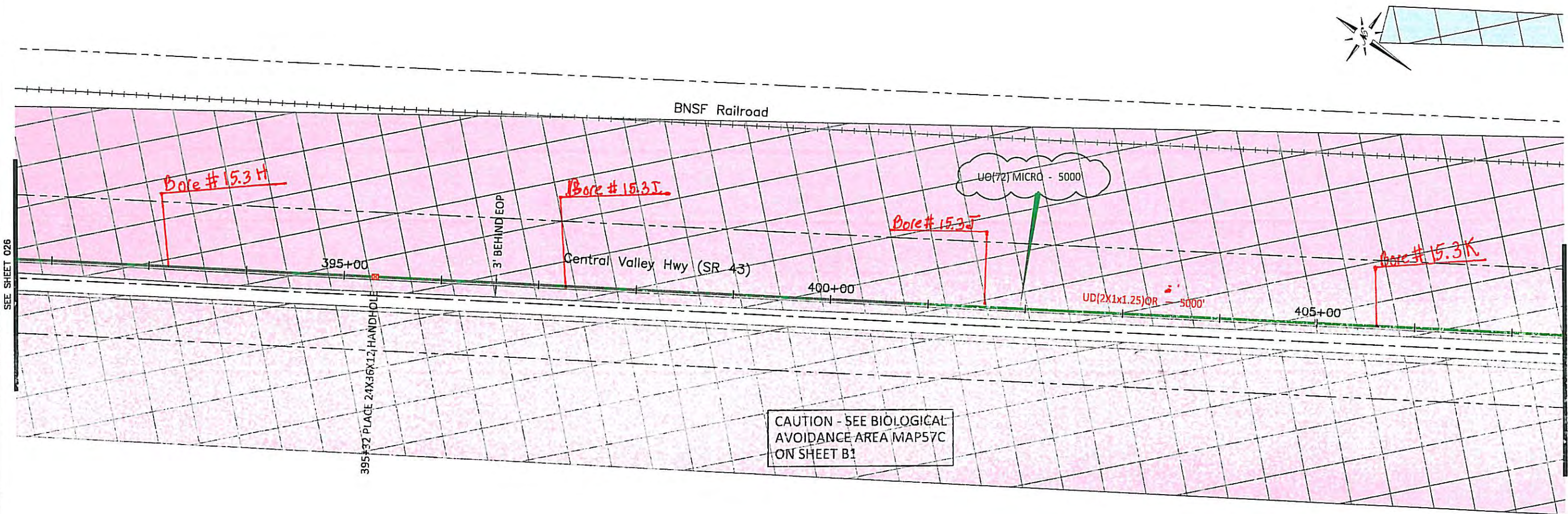
GRID: 026

JT UDP 477' JT UDP 370' JT UDP 480' JT-UDP 435'

288+40 264+70 259+90 255+55

SP 36.14083452°N SP 36.14153865°N 36.14268240°N SP 36.14392697°N

119.58724379°W 119.58782049°W 119.58864951°W 119.58956046°W



AVOIDANCE AREA LEGEND			
	SEASONAL AND PERMANENT AQUATIC		CHAPARRAL
	AGRICULTURE		WOODLAND
	GRASSLAND		RIPARIAN
	ALKALI SCRUB		DEVELOPED
	RUDERAL		

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	0	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")OR	5000'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
BM73	0'	UD(72) MICRO (W/ STORAGE)	5000'	UHF(36X60X36)T	0										

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

DATE: 9/27/2011

SCALE: 1:100

SEGMENT: 15 WAUKENA-LEMOORE

GRID: 027

CENTRAL VALLEY
INDEPENDENT NETWORK

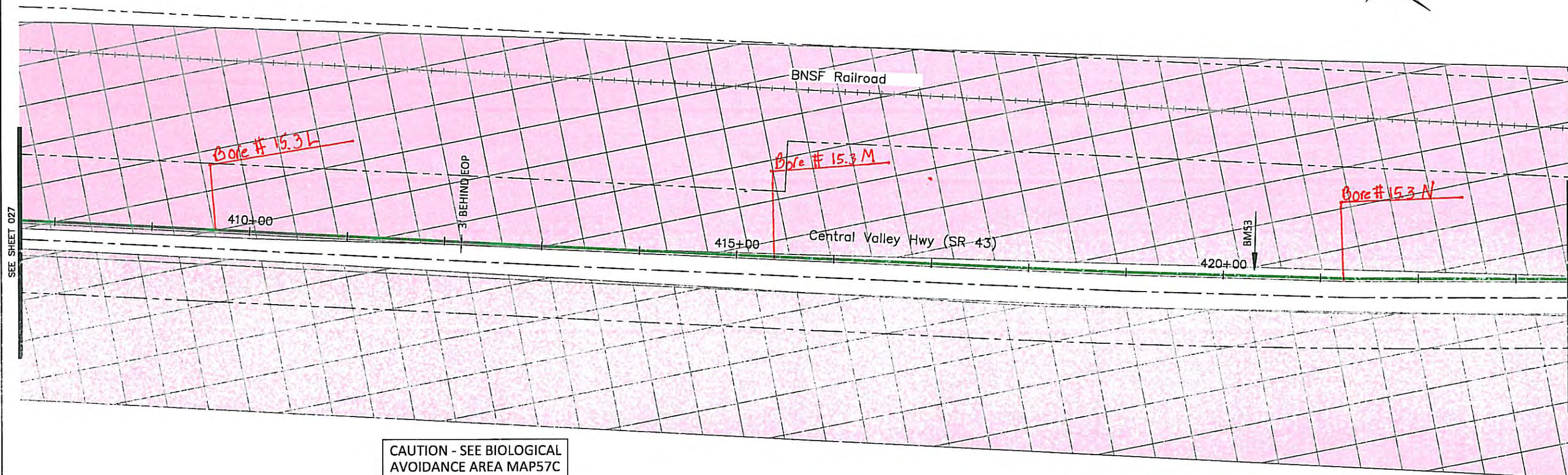
855 M Street, Suite 1120, Fresno, CA 93721

JT 4DP 578

249+50
SP 36.14514661° N
119.59045179° W










SP 244+35
36.14635646°N
119.59137449°W

1.25 \rightarrow
mod





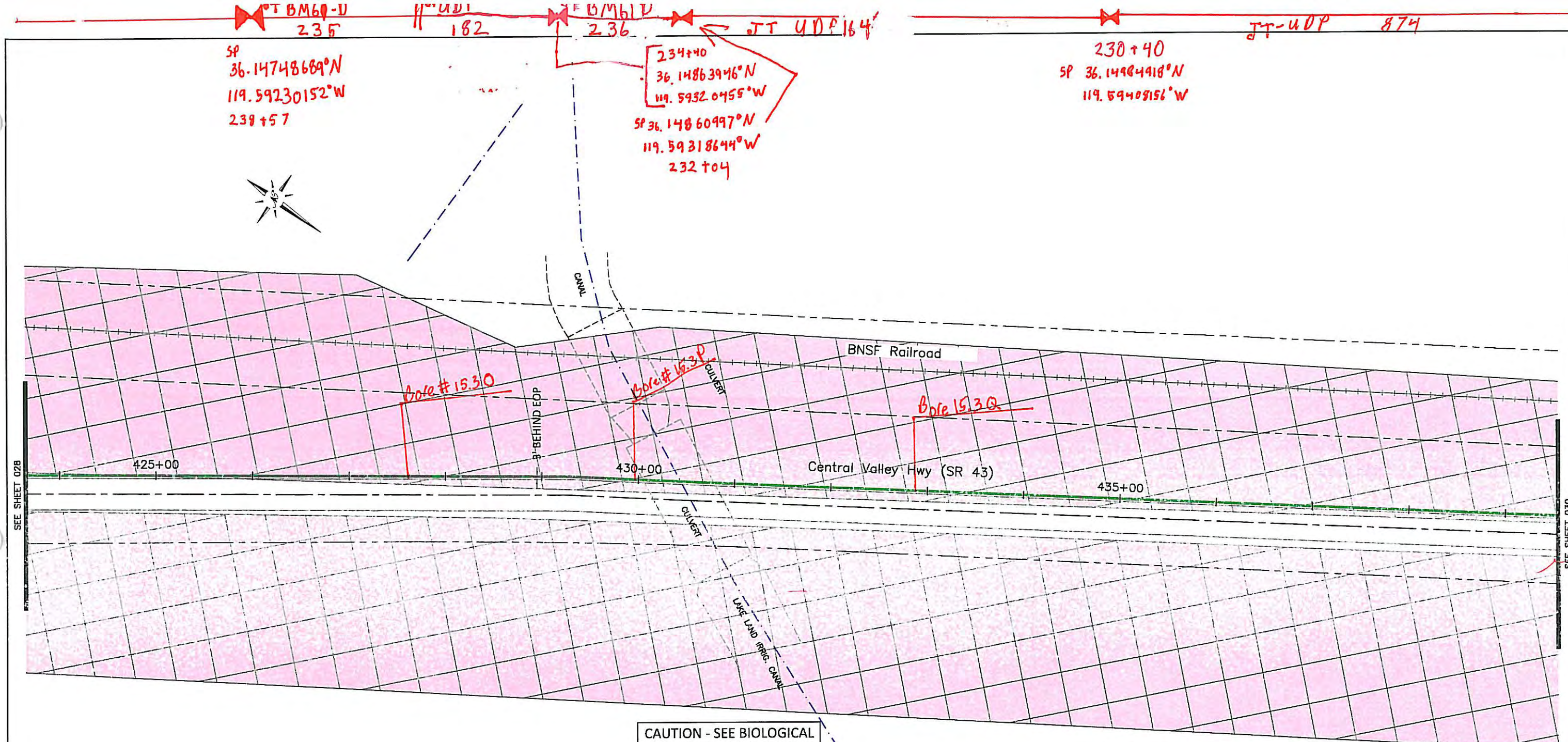
CAUTION - SEE BIOLOGICAL
AVOIDANCE AREA MAP57C
ON SHEET B1

AVOIDANCE AREA LEGEND

- | | | | |
|---|-----------------------------------|---|-----------|
|  | SEASONAL AND
PERMANENT AQUATIC |  | CHAPARRAL |
|  | AGRICULTURE |  | WOODLAND |
|  | GRASSLAND |  | RIPARIAN |
|  | ALKALI SCRUB |  | DEVELOPED |
|  | RUDERAL | | |



MP: BW 1/17/13

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	1	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
BM73	0'	UO(72) MICRO (W/ STORAGE)	0'	UHF(36X60X36)T	0										
															
												Engineering Associates, Inc. 445 W. 11th St. (Suite B) Tracy, Ca. 95376 Ph. 209-830-0162 Fax 209-830-8157		855 M Street, Suite 1120, Fresno, CA 93721	
												DATE:	SCALE:	SEGMENT:	GRID:
												9/27/2011	1:100	15 WAUKENA-LEMOORE	028



CAUTION - SEE BIOLOGICAL AVOIDANCE AREA MAP57B ON SHEET B1

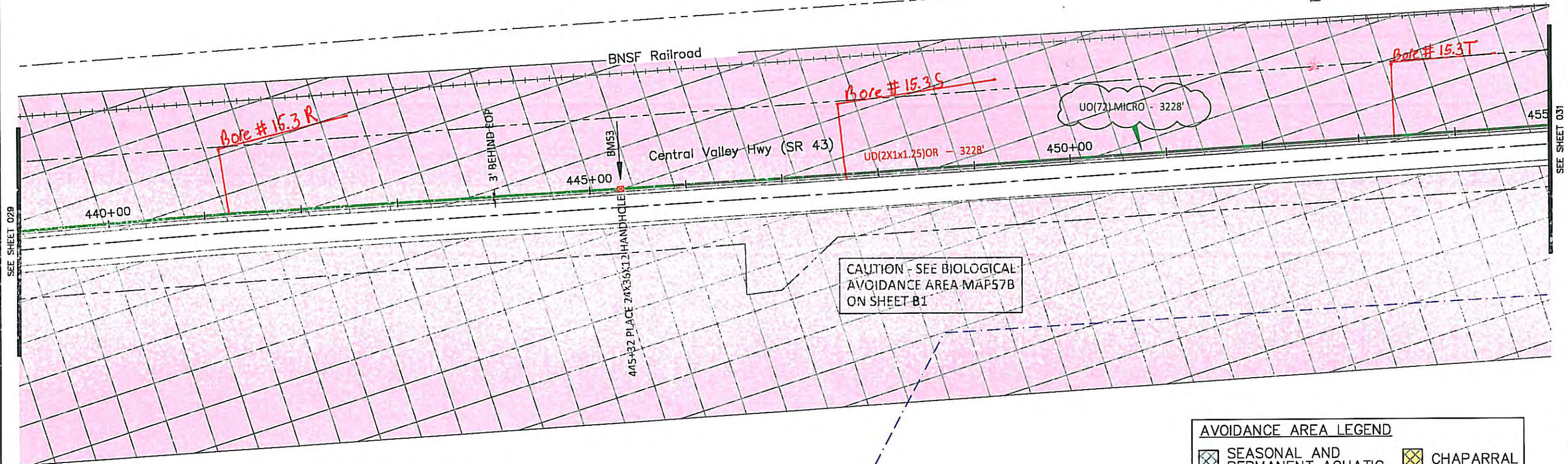
AVOIDANCE AREA LEGEND			
	SEASONAL AND PERMANENT AQUATIC		CHAPARRAL
	AGRICULTURE		WOODLAND
	GRASSLAND		RIPARIAN
	ALKALI SCRUB		DEVELOPED
	RUDERAL		

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D	<div>Engineering Associates, Inc. 445 W. 11th St. (Suite B) Tracy, Ca. 95376 Ph. 209-830-0162 Fax 209-830-8157</div> <div></div> <div><div>855 M Street, Suite 1120, Fresno, CA 93721</div></div>			
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY										
53	0	BM96-G	0'	UD-A	0'	FT	0												
ID & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0												
BM66 & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0														
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0														
BM71C	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0														
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0														
BM73	0'	UD(72) MICRO (W/ STORAGE)	0'	UHF(36X60X36)T	0														
												DATE:	9/27/2011	SCALE:	1:100		SEGMENT:	15 WAUKENA-LEMOORE	GRID:










214+00
uHF 12"
36.15340175°N



TRAIN SIGNAL BOX
9551




AVOIDANCE AREA LEGEND


	SEASONAL AND PERMANENT AQUATIC		CHAPARRAL
	AGRICULTURE		WOODLAND
	GRASSLAND		RIPARIAN
	ALKALI SCRUB		DEVELOPED
	RUDERAL		

~~X~~ *[Signature]*
MP, BW 1/17/13

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	1	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-5	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")OR	0'	HUQ(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")OR	3228'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
BM73	0'	UD(72) MICRO (W/ STORAGE)	3228'	UHF(36X60X36)T	0										

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157







855 M Street, Suite 1120, Fresno, CA 93721

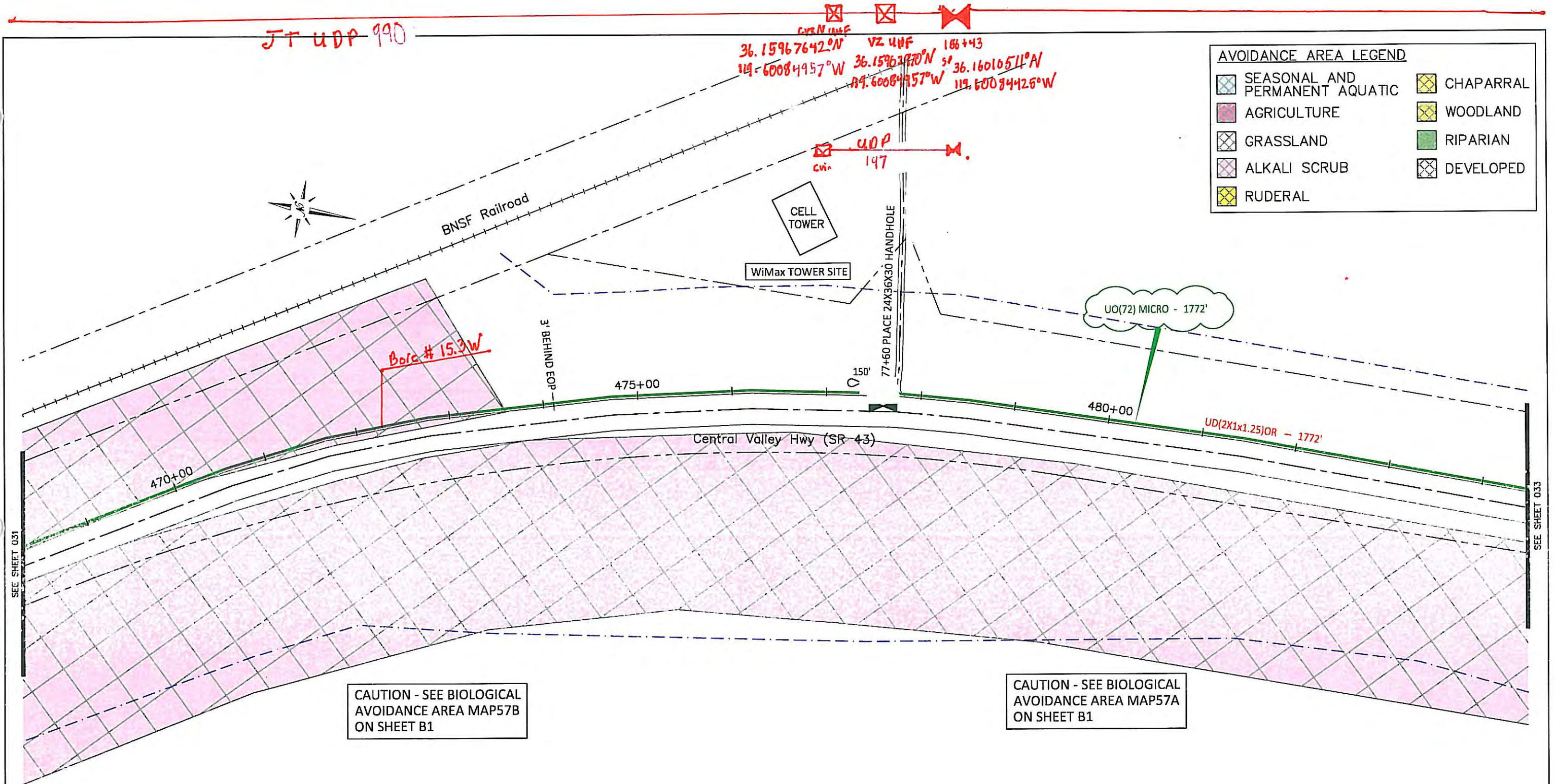
DATE:
9/27/2011

SCALE:
1:100

SEGMENT:
15 WAUKENA-LEMOORE

GRID:
030

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D	<div>Engineering Associates, Inc. 445 W. 11th St. (Suite B) Tracy, Ca. 95376 Ph. 209-830-0162 Fax 209-830-8157</div> <div></div> <div>CVIN CENTRAL VALLEY INDEPENDENT NETWORK 855 M Street, Suite 1120, Fresno, CA 93721</div>		
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY									
BM53	1	BM95-G	0'	UD-A	0'	FT	0											
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0											
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0													
BM66 & U(2x1x1.25")OR	0'	HUO(72)	0	UHF(24X36X30)	0													
BM71	0'	UD(2x1x1.25")OR	0'	UHF(24X36X30)T	0													
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0													
BM73	0'	UO(72) MICRO (W/ STORAGE)	0'	UHF(36X60X36)T	0													



TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPV'D
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	0	BM95-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-S	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	0										
BM66 & U(2x1x1.25")OR	0'	HUO(72)	1	UHF(24X36X30)	1										
BM71C	0'	UD(2x1x1.25")OR	1772'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)IV	0'	UHF(48X48X36)T	0										
BM73	0'	UD(72) MICRO (W/ STORAGE)	1922'	UHF(36X60X36)T	0										

MP: BW 1/17/13

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

DATE: 9/27/2011 SCALE: 1:100

SEGMENT: 15 WAUKENA-LEMOORE GRID: 032

CVIN
CENTRAL VALLEY
INDEPENDENT NETWORK
855 M Street, Suite 1120, Fresno, CA 93721

UDP 898'

sp 36.16399477°N 172.132
119.60077835°W sp 36.116406261°N
119.60077832°W












UO(72) MICRO - 5000'

UD(2X1x1.25)OR - 4033'

Central Valley Hwy (SR 43)

CAUTION - SEE BIOLOGICAL
AVOIDANCE AREA MAP57A
ON SHEET B1

AVOIDANCE AREA LEGEND

- | | | | |
|---|-----------------------------------|---|-----------|
|  | SEASONAL AND
PERMANENT AQUATIC |  | CHAPARRAL |
|  | AGRICULTURE |  | WOODLAND |
|  | GRASSLAND |  | RIPARIAN |
|  | ALKALI SCRUB |  | DEVELOPED |
|  | RUDERAL | | |

~~x~~ ~~MP: BW~~ 1/17/13

TABULATION		TABULATION		TABULATION		TABULATION		TABULATION		REV	DATE	DESCRIPTION	BY	CKD	APPVD
UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY						
BM53	1	BM96-G	0'	UD-A	0'	FT	0								
BM60D & U(2x1x1.25")OR	0'	BR	0'	UD-5	0'	WY	0								
BM61D & U(2x1x1.25")OR	0'	FD-A	0	UHF(24X36X12)	1										
BM66 & U(2x1x1.25")OR	0'	HUD(72)	0	UHF(24X36X30)	0										
BM71C	0'	UD(2x1x1.25")OR	4033'	UHF(24X36X30)T	0										
BM72	0'	UD(1x10/12mm)V	0'	UHF(48X48X36)T	0										
BM73	0'	UD(72) MICRO (W/ STORAGE)	5150'	UHF(36X60X36)T	0										

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

855 M Street, Suite 1120, Fresno, CA 93721

DATE: 9/27/2011

SCALE: 1:100

SEGMENT: 15 WAUKENA-LEMOORE

GRID: 033

RFP No. 13-57 - Addendum No. 3 - 07/31/2014